

MEASURING DEVICE FOR BLOOD CLOTTING TIME

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Inventor(s): HAYASHI MASAYOSHI
Applicant(s): TOUA IYODENSHI KK
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Abstract

PURPOSE: To permit easy measurement, to improve accuracy of reproduction and to enable measurement of an abnormal specimen as well by storing momentarily the optically detected value of clotting and calculating the time until set % is attained with a satd. value as 100%.

CONSTITUTION: When the sample having the same temp. as the temp. of a blood plasma sample is injected into the device by a pipette 8, the time for starting the measurement is set in an arithmetic circuit 12 and at the same time a light shielding cover 4 is closed. The detection and measurement of the clotting by a light source 5, a photodetector 6 and a detecting circuit 10 are started. The measured value is stored momentarily into a storage circuit 13 and when the measured value is satd., the circuit 10 is controlled by the circuit 12 to end the measurement. The circuit 12 calculates the measuring time of each % with the satd. value as 100% and stores the same, etc. again in the circuit 13. The time for the clotting complying with the assigned % from a keyboard 11 is outputted to a CRT14 or recorder. The measurement is easily accomplished by such constitution which performs the automatic measurement and % processing, by which the reproducibility is improved and the measurement of the abnormal specimen is made easy and sure.

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